

South Hills School of Business & Technology

Architectural CAD – IM230

CAD LAYERING STANDARDS FOR CONSTRUCTION DOCUMENTATION:

The layering standard complies with the AIA CAD Layer Guidelines as found in the United States National CAD Standard - Version 4.

Layer Name Formatting:

Layer names may be as short as six characters (discipline code + major group) or as long as fourteen characters (discipline code + major group + minor group + status). Here are the four examples of acceptable formula variations, with explanations of formula variables found below:

1 A-WALL = Discipline Code + Major Group

2 A-WALL-FULL = Discipline Code + Major Group + Minor Group

3 A-WALL-DEMO = Discipline Code + Major Group + Status Code

4 A-WALL-FULLE = Discipline Code + Major Group + Minor Group + Status Code

Discipline Code:

The discipline code is one or two character field with a designator from the table below and if necessary an optional second character (a user defined modifier) followed by a hyphen. The Discipline designators are the same for both layer names and file names.

Discipline Designator:

A	Architectural
B	Geotechnical
C	Civil
D	Process
E	Electrical
F	Fire Protection
G	General
H	Hazardous Materials
I	Interiors
L	Landscape
M	Mechanical
O	Operations
P	Plumbing
Q	Equipment
R	Resource
S	Structural
T	Telecommunications
V	Survey/Mapping
X	Other Disciplines
Z	Contractor / Shop Drawings

Major Group:

The major group designation is a four-character field that identifies the building system, such as doors, walls, windows, etc. Although most major groups are logically associated with specific discipline codes, it is possible to combine major group codes with any of the discipline codes. For example, A-WALL or I-WALL.

Minor Group:

This is an optional, four-character field for further differentiation of major groups. For example, partial height walls (A-WALL-PART) might be differentiated from full height walls (A-WALL-FULL). The following common modifiers defined by the AIA can also be used in the minor group field:

IDEN identification tags example: A-DOOR-IDEN

PATT cross hatching, poche example: A-WALL-PATT

If necessary, the minor group field may also be defined by the user, allowing additional layers to be added to accommodate special project requirements. However, this should only be done after checking the National CAD Standard to see if any of the predefined layer names in that list would meet the special project requirements.

Status Field:

The status field is an optional one-character designator that indicates work status or construction phase. Since drawings submitted at close-out are as-built, this field should be used to differentiate new construction from existing or phases of work that must be differentiated. The status field is always the last character of the layer name. See also the Status Field / Dominant Phase Rule below. Examples of values defined for this field, by the AIA, are as follows:

Status Field Codes:

D	Existing to Demolish
E	Existing to Remain
F	Future Work
M	Items to be Moved
N	New Work
R	Relocated Items
T	Temporary Work
X	Not in Contract
0-9	Phase Numbers

A-WAL-N	New Walls
A-WALL-D	Walls to be Demolished
A-WALL-E	Existing Walls to Remain

General Rules about Names and Uses:

Layer uses are generally implied by the layer name. However, the following explanation of certain layer use rules should be noted.

Status Field / Dominant Phase Rule:

This rule pertains to the use of the status field in naming layers for construction projects. Layers representing the dominant phase of a project can be represented without a status field. For example, in a small remodeling project, N would indicate new construction, while layers without status fields would indicate parts of the existing building to remain. Conversely, a remodeling project consisting of mostly new construction might use E to indicate “existing to remain” building systems while all layers without a status field designator would represent new construction.

Annotation and Title Blocks:

These rules also come from the 1997 AIA CAD Layer Guidelines, which define annotation as comprising text, dimensions, title block and sheet borders, detail references and other elements on CAD drawings that do not represent physical aspects of a building. Annotation is designated by the major group ANNO, which can be combined with any discipline code. Types of annotation are designated below (asterisk represents any discipline code):

- *-ANNO-DIMS dimensions
- *-ANNO-KEYN keynotes
- *-ANNO-LEGN legends and schedules
- *-ANNO-NOTE notes
- *-ANNO-NPLT construction lines, nonplotting information, viewports
- *-ANNO-REDL redlines
- *-ANNO-REVS revisions
- *-ANNO-SYMB symbols
- *-ANNO-TEXT text
- *-ANNO-TTLB title blocks and sheet borders

Annotation can be placed in both model space and paper space. Dimensions, symbols and keynotes would typically be placed in model space. Legends, schedules, title blocks, and sheet borders would typically be placed in paper space. The same layer names would be used in both cases.

Elevations, Sections, and Three-Dimensional Drawings:

Per the 1997 AIA CAD Layer Guidelines, special groups of layers within each discipline are defined for elevations, section, details, and three-dimensional views. Defined layer groups are as follows (asterisk represents any discipline code):

- *-ELEV elevations
- *-ELEV-IDEN component identification numbers
- *-ELEV-OTLN building outlines
- *-ELEV-PATT textures and hatch patterns

- *-SECT sections
- *-SECT-MBND materials beyond section cut
- *-SECT-MCUT materials cut by section
- *-SECT-PATT textures and hatch patterns
- *-SECT-IDEN component identification numbers

- *-DETL details
- *-DETL-IDEN component identification numbers
- *-DETL-MBND material beyond section cut
- *-DETL-MCUT material cut by section
- *-DETL-PATT textures and hatch patterns

AIA guidelines further recommend that the minor group ELEV can be added to any major group layer (A-WALL-ELEV, A-DOOR-ELEV, etc.) to identify information only seen in 3D views. This facilitates integrating three-dimensional CAD models with two-dimensional plans, as shown by this example:

A-WALL walls in plan view
A-WALL-ELEV wall surfaces in 3D view

Standard Layer Listing:

If additional names are needed for construction drafting purposes, please refer to the AIA CAD Layer Guidelines found in the United States National CAD Standard. If that layer list is not sufficient, new layer names may be added using the formatting rules described in this section.

LAYER		ATTRIBUTE	
Name	Description	Color	Linetype
Architectural			
A-ANNO-TEXT	General Text	30	Continuous
A-ANNO-REDL	Redlines	1	Continuous
A-ANNO-SYMB	Symbols	30	Continuous
A-ANNO-LEGN	Legends and schedules	30	Continuous
A-ANNO-DIMS	Dimensions	2	Continuous
A-ANNO-TTLB	Border and Title Block	4	Continuous
A-ANNO-NOTE	Job Notes	30	Continuous
A-ANNO-NPLT	Construction lines, nonplotting information, viewports	9	Continuous
A-ANNO-KEYN	Key notes	30	Continuous
A-AREA	Area calculation boundary lines	4	Continuous
A-AREA-IDEN	Room numbers, tenant identifications, area cales	151	Continuous
A-AREA-OCCP	Occupant or employee names	30	Continuous
A-AREA-PATT	Area cross hatching	15	Continuous
A-CLNG	Ceiling information	.010	Continuous
A-CLNG-GRID	Ceiling grid	.010	Continuous
A-CLNG-PATT	Ceiling patterns	15	Continuous
A-CLNG-SUSP	Suspended elements	.010	Continuous
A-DETL	Details	.010	Continuous
A-DETL-IDEN	Detail identification numbers	30	Continuous
A-DETL-NOTE	Detail notes	30	Continuous

A-DETL-PATT	Detail hatching	15	Continuous
A-DETL-TEXT	Detail text	30	Continuous
A-DOOR	Doors	.010	Continuous
A-DOOR-IDEN	Door number, hardware group, etc	140	Continuous
A-ELEV	Elevations	.010	Continuous
A-ELEV-IDEN	Elevation identification numbers	30	Continuous
A-ELEV-NOTE	Elevation notes	30	Continuous
A-ELEV-PATT	Elevation hatching	15	Continuous
A-ELEV-TEXT	Elevation text	30	Continuous
A-EQPM	Equipment - built in	.010	Continuous
A-EQPM-CLNG	Ceiling-mounted or suspended equipment	.010	Continuous
A-EQPM-FIXD	Fixed equipment	.010	Continuous
A-EQPM-IDEN	Equipment identification numbers	30	Continuous
A-EQPM-MOVE	Moveable equipment	.010	Continuous
A-FLOR	Floor information	.010	Continuous
A-FLOR-CASE	Casework (manufactured cabinets)	.010	Continuous
A-FLOR-EVTR	Elevator cars and equipment	.010	Continuous
A-FLOR-HRAL	Stair and balcony handrails, guard rails	.010	Continuous
A-FLOR-IDEN	Room numbers, names, targets, etc.	140	Continuous
A-FLOR-LEVL	Level changes, ramps, pits, depressions	.010	Continuous
A-FLOR-PATT	Paving, tile, carpet patterns	15	Continuous
A-FLOR-SIGN	Signage	.010	Continuous
A-FLOR-SPCL	Architectural specialties (accessories, etc.)	.010	Continuous
A-FLOR-STRS	Stair treads, escalators, ladders	.010	Continuous
A-FLOR-TPTN	Toilet partitions	.010	Continuous
A-FLOR-WDWK	Architectural woodwork (field-built cabs/counters)	.010	Continuous
A-GLAZ	Windows, curtain walls, glazed partitions	.010	Continuous
A-GLAZ-FULL	Full-height glazed walls and partitions	.010	Continuous
A-GLAZ-IDEN	Window number	140	Continuous
A-GLAZ-PHRT	Windows and partial-height glazed partitions	.010	Continuous
A-GLAZ-SILL	Window sills	.010	Continuous
A-ROOF	Roof	.010	Continuous
A-ROOF-LEVL	Level changes	.010	Continuous
A-ROOF-OTLN	Roof outline	.010	Continuous
A-ROOF-PATT	Roof surface patterns, hatching	15	Continuous
A-SECT	Sections	.010	Continuous
A-SECT-IDEN	Section identification numbers	.010	Continuous
A-SECT-NOTE	Section notes	30	Continuous
A-SECT-PATT	Section hatching	15	Continuous
A-SECT-TEXT	Section text	30	Continuous
A-WALL	Walls – general	.010	Continuous
A-WALL-INTR	Interior Building Wall	.010	Continuous
A-WALL-FIRE	Fire wall patterning	.010	Continuous
A-WALL-FULL	Full-height walls, stairs and shaft walls	.010	Continuous
A-WALL-EXTR	Exterior Building Wall	.010	Continuous
A-WALL-HEAD	Door / window headers (on reflected ceiling plans)	.010	Continuous

A-WALL-JAMB	Door / window jambs (on floor plans only)	.010	Continuous
A-WALL-MOVE	Moveable partitions	.010	Continuous
A-WALL-PATT	Wall insulation, hatching and fill	15	Continuous
A-WALL-PRHT	Partial-height walls (on floor plans only)	.010	Continuous
A-WALL-VENR	Wall veneer	.010	Continuous
Civil			
C-ANNO-DIMS	Dimensions	2	
C-ANNO-LEGN	Legends and schedules	30	Continuous
C-ANNO-NOTE	Notes	30	Continuous
C-ANNO-SYMB	Symbols	30	Continuous
C-ANNO-TEXT	General Text	30	Continuous
C-ANNO-TTLB	Border and Title Block	4	Continuous
C-BLDG	Proposed building footprints	14	Continuous
C-COMM	Site communication/telephone poles, boxes, towers	.010	Continuous
C-COMM-CWIRE	Site communication cable – overhead or underground lines	15	Cable
C-COMM-TWIRE	Site communication telephone – overhead or underground lines	15	Telephone
C-POWR	Power – overhead or underground lines	15	Electrical
C-FIRE	Fire protection-hydrants, connections	.010	Continuous
C-FIRE-UNDR	Fire supply – underground lines	15	Sprinkler
C-NGAS	Natural gas-manholes, meters, storage tanks	.010	Continuous
C-NGAS-UNDR	Natural gas-underground lines	15	Gas
C-PKNG	Parking lots	.010	Continuous
C-PKNG-ISLD	Parking islands	.010	Continuous
C-PKNG-STRP	Parking lot striping, handicapped symbol	.010	Continuous
C-PROP	Property lines, survey benchmarks	4	Phantom
C-PROP-BRNG	Bearings and distance labels	30	Continuous
C-PROP-CONS	Construction controls	.010	Continuous
C-PROP-ESMT	Easements, rights-of-way, setback lines	.010	Hidden
C-ROAD	Roadways	.010	Continuous
C-ROAD-CNTR	Center lines	.010	Continuous
C-ROAD-CURB	Curbs	.010	Continuous
C-SSWR	Sanitary sewer-manholes, pumping stations	.010	Continuous
C-SSWR-UNDR	Sanitary sewer-underground lines	15	Sewer
C-STRM	Storm drainage catch basins, manholes	.010	Continuous
C-STRM-UNDR	Storm drainage pipe-underground	15	Continuous
C-TOPO	Proposed contour lines and elevations	4	Continuous
C-TOPO-RTWL	Retaining wall	.010	Continuous
C-TOPO-SPOT	Spot elevations	30	Continuous
C-WATR	Domestic water- manholes, pumping, storage	.010	Continuous
C-WATR-UNDR	Domestic water-underground lines	15	Water

Electrical			
E-ANNO-TEXT	General Text	30	Continuous
E-ANNO-SYMB	Symbols	30	Continuous
E-ANNO-LEGN	Legends and schedules	30	Continuous
E-ANNO-DIMS	Dimensions	2	Continuous
E-ANNO-TTLB	Border and Title Block	4	Continuous
E-ANNO-NOTE	Job Notes	30	Continuous
E-1LIN	One-line diagrams	.010	Continuous
E-ALRM	Miscellaneous alarm system	.010	Continuous
E-AUXL	Auxiliary systems	.010	Continuous
E-CCTV	Closed-circuit TV	.010	Continuous
E-COMM	Telephone, communications outlets	.010	Continuous
E-CTRL	Electric control system	.010	Continuous
E-CTRL-DEVC	Control system devices	.010	Continuous
E-CTRL-WIRE	Control system wiring	.010	Continuous
E-INTC	Intercom system	.010	Continuous
E-LITE	Lighting	.010	Continuous
E-LITE-CIRC	Lighting circuits	2	Dashed
E-LITE-CLNG	Ceiling-mounted lighting	.010	Continuous
E-LITE-EMER	Emergency lighting	.010	Continuous
E-LITE-FLOR	Floor-mounted lighting	.010	Continuous
E-LITE-IDEN	Luminaire identification and text	30	Continuous
E-LITE-JBOX	Junction box	.010	Continuous
E-LITE-NUMB	Lighting circuit numbers	30	Continuous
E-LITE-ROOF	Roof lighting	.010	Continuous
E-LITE-SPCL	Special lighting	.010	Continuous
E-LITE-SWCH	Lighting-switches	.010	Continuous
E-LITE-WALL	Wall-mounted lighting	.010	Continuous
E-POWR	Power	.010	Continuous
E-POWR-BUSW	Busways	.010	Continuous
E-POWR-CABL	Cable trays	.010	Continuous
E-POWR-CIRC	Power circuits	2	Dashed
E-POWR-CLNG	Power-ceiling receptacles and devices	.010	Continuous
E-POWR-EQPM	Power equipment	.010	Continuous
E-POWR-FEED	Feeders	.010	Continuous
E-POWR-IDEN	Power identification, text	30	Continuous
E-POWR-JBOX	Junction box	.010	Continuous
E-POWR-NUMB	Power circuit numbers	30	Continuous
E-POWR-OTLN	Power outline for backgrounds	.010	Continuous
E-POWR-PANL	Power panels	30	Continuous
E-POWR-SWBD	Power switchboards	.010	Continuous
E-POWR-URAC	Underfloor raceways	.010	Continuous
E-POWR-WALL	Power wall outlets and receptacles	.010	Continuous
E-RISR	Riser diagram	.010	Continuous
E-SOUN	Sound/PA system	.010	Continuous

Fire Protection			
F-ANNO-TEXT	General Text	30	Continuous
F-ANNO-SYMB	Symbols	30	Continuous
F-ANNO-LEGN	Legends and schedules	30	Continuous
F-ANNO-DIMS	Dimensions	2	Continuous
F-ANNO-TTLB	Border and Title Block	4	Continuous
F-ANNO-NOTE	Job Notes	30	Continuous
F-CO2S	CO2 system	.010	Continuous
F-CO2S-EQPM	CO2 equipment	.010	Continuous
F-CO2S-PIPE	CO2 sprinkler piping	.010	Continuous
F-HALN	Halon	.010	Continuous
F-HALN-EQPM	Halon equipment	.010	Continuous
F-HALN-PIPE	Halon Piping	.010	Continuous
F-IGAS	Inert gas	.010	Continuous
F-IGAS-EQPM	Inert gas equipment	.010	Continuous
F-IGAS-PIPE	Inert gas piping	.010	Continuous
F-PROT	Fire protection systems	.010	Continuous
F-PROT-ALRM	Fire alarm	.010	Continuous
F-PROT-EQPM	Fire system equipment (hose cabinet/extinguishers)	.010	Continuous
F-PROT-SMOK	Smoke detectors/heat sensors	.010	Continuous
F-SPRN	Fire protection sprinkler system	.010	Continuous
F-SPRN-CLHD	Sprinkler head-ceiling	.010	Continuous
F-SPRN-OTHD	Sprinkler head-other	.010	Continuous
F-SPRN-PIPE	Sprinkler piping	.010	Continuous
F-SPRN-STAN	Sprinkler system standpipe	.010	Continuous
F-STAN	Fire protection standpipe system	.010	Continuous
Interior			
I-ANNO-TEXT	General Text	30	Continuous
I-ANNO-SYMB	Symbols	30	Continuous
I-ANNO-LEGN	Legends and schedules	30	Continuous
I-ANNO-DIMS	Dimensions	2	Continuous
I-ANNO-TTLB	Border and Title Block	4	Continuous
I-ANNO-NOTE	Job Notes	30	Continuous
I-EQPM	Equipment	.010	Continuous
I-EQPM-MOVE	Moveable equipment	.010	Continuous
I-FURN	Furniture	.010	Continuous
I-FURN-CASE	Cabinetry / casement	.010	Continuous
I-FUR-CHAR	Chairs and other seating	.010	Continuous
I-FURN-FILE	File cabinets	.010	Continuous
I-FURN-FREE	Furniture - freestanding (desks, credenzas, etc.)	.010	Continuous
I-FURN-IDEN	Furniture numbers	.010	Continuous
I-FURN-PLNT	Plants	.010	Continuous
I-FURN-PNLS	Furniture system panels	.010	Continuous
I-FURN-POWR	Furniture system-power designation	.010	Continuous
I-FURN-WKSF	Furniture system work surface components	.010	Continuous

Landscaping			
L-ANNO-TEXT	General Text	30	Continuous
L-ANNO-SYMB	Symbols	30	Continuous
L-ANNO-LEGN	Legends and schedules	30	Continuous
L-ANNO-TTLB	Border and Title Block	4	Continuous
L-ANNO-NOTE	Job Notes	30	Continuous
L-PLNT	Plant and landscape materials	.010	Continuous
L-PLNT-BEDS	Rock, bark, and other landscaping beds	.010	Continuous
L-PLNT-GRND	Ground cover and vines	.010	Continuous
L-PLNT-PLAN	Planting plants	.010	Continuous
L-PLNT-TREE	Trees	.010	Continuous
L-PLNT-TURF	Lawn areas	.010	Continuous
L-SITE	Site improvements	.010	Continuous
L-SITE-BRDG	Bridges	.010	Continuous
L-SITE-DECK	Decks	.010	Continuous
L-SITE-FENC	Fencing	.010	Continuous
L-SITE-FURN	Site furnishings	.010	Continuous
L-SITE-PLAY	Play structures	.010	Continuous
L-SITE-POOL	Pools and spas	.010	Continuous
L-SITE-SPRT	Sports fields	.010	Continuous
L-SITE-STEP	Steps	.010	Continuous
L-SITE-WALL	Walls	.010	Continuous
L-WALK	Walks and steps	.010	Continuous
L-WALK-PATT	Walks and steps-cross-hatch patterns	15	Continuous
Mechanical			
M-ANNO-TEXT	General Text	30	Continuous
M-ANNO-SYMB	Symbols	30	Continuous
M-ANNO-LEGN	Legends and schedules	30	Continuous
M-ANNO-TTLB	Border and Title Block	4	Continuous
M-ANNO-NOTE	Job Notes	30	Continuous
M-CMPA	Compressed air systems	.010	Continuous
M-CMPA-CEQP	Compressed air equipment	.010	Continuous
M-CMPA-CPIP	Compressed air piping	.010	Continuous
M-CMPA-PEQP	Process air equipment	.010	Continuous
M-CMPA-PPIP	Process air piping	.010	Continuous
M-CONT	Controls and instrumentation	.010	Continuous
M-CONT-THER	Thermostats	.010	Continuous
M-CONT-WIRE	Low voltage wiring	.010	Continuous
M-CWTR	Chilled water systems	.010	Continuous
M-CWTR-EQPM	Chilled water equipment	.010	Continuous
M-CWTR-PIPE	Chilled water piping	.010	Continuous
M-EXHS	Exhaust system	.010	Continuous
M-EXHS-DUCT	Exhaust system ductwork	.010	Continuous
M-EXHS-EQPM	Exhaust system equipment	.010	Continuous
M-EXHS-RFEQ	Rooftop exhaust equipment	.010	Continuous
M-FUME-EQPM	Fume hoods	.010	Continuous
M-FUME-EXHS	Fume hood exhaust system	.010	Continuous
M-HOTW	Hot water heating system	.010	Continuous

M-HOTW-EQPM	Hot water equipment	.010	Continuous
M-HOTW-PIPE	Hot water piping	.010	Continuous
M-HVAC	HVAC system	.010	Continuous
M-HVAC-CDFF	HVAC ceiling diffusers	.010	Continuous
M-HVAC-DUCT	HVAC ductwork	.010	Continuous
M-HVAC-EQPM	HVAC equipment	.010	Continuous
M-HVAC-ODFF	HVAC other diffusers	.010	Continuous
M-HVAC-RDFF	Return air diffusers	.010	Continuous
M-HVAC-SDFF	Supply diffusers	.010	Continuous
M-MDGS	Medical gas systems	.010	Continuous
M-MDGS-EQPM	Medical gas equipment	.010	Continuous
M-MDGS-PIPE	Medical gas piping	.010	Continuous
M-SPCL	Special systems	.010	Continuous
M-SPCL-EQPM	Special equipment	.010	Continuous
M-SPCL-PIPE	Special piping	.010	Continuous
M-STEM	Steam systems	.010	Continuous
M-STEM-CONP	Steam systems condensate piping	.010	Continuous
M-STEM-EQPM	Steam systems equipment	.010	Continuous
M-STEM-HPIP	High pressure steam piping	.010	Continuous
M-STEM-LPIP	Low pressure steam piping	.010	Continuous
M-STEM-MPIP	Medium pressure steam piping	.010	Continuous
Plumbing			
P-ANNO-TEXT	General Text	30	Continuous
P-ANNO-SYMB	Symbols	30	Continuous
P-ANNO-LEGN	Legends and schedules	30	Continuous
P-ANNO-TTLB	Border and Title Block	4	Continuous
P-ANNO-NOTE	Job Notes	30	Continuous
P-ACID	Acid, alkaline, oil waste systems	.010	Continuous
P-ACID-PIPE	Acid, alkaline, oil waste piping	.010	Continuous
P-DOMW	Domestic hot and cold water systems	.010	Continuous
P-DOMW-CPIP	Domestic cold water piping	5	Center
P-DOMW-EQPM	Domestic hot and cold water equipment	.010	Continuous
P-DOMW-HPIP	Domestic hot water piping	1	Phantom
P-DOMW-RISR	Domestic hot and cold water risers	.010	Continuous
P-DOMW-VENT	Domestic vent piping	13	Dashed
P-EQPM	Plumbing - miscellaneous equipment	.010	Continuous
P-FIXT	Plumbing fixtures, toilets, sinks	124	Continuous
P-SANR	Sanitary drainage	.010	Continuous
P-SANR-EQPM	Sanitary equipment	.010	Continuous
P-SANR-FIXT	Plumbing fixtures	.010	Continuous
P-SANR-FLDR	Floor drains	.010	Continuous
P-SANR-PIPE	Sanitary piping	10	Continuous
P-SANR-RISR	Sanitary risers	.010	Continuous
P-STRM	Storm drainage system	.010	Continuous
P-STRM-PIPE	Storm drain piping	.010	Continuous
P-STRM-RFDR	Roof drains	.010	Continuous
P-STRM-RISR	Storm drain risers	.010	Continuous

Structural			
S-ANNO-TEXT	General Text	30	Continuous
S-ANNO-SYMB	Symbols	30	Continuous
S-ANNO-LEGN	Legends and schedules	30	Continuous
S-ANNO-DIMS	Dimensions	2	Continuous
S-ANNO-TTLB	Border and Title Block	4	Continuous
S-ANNO-NOTE	Job Notes	30	Continuous
S-BEAM	Beams	.010	Continuous
S-COLS	Columns	.010	Continuous
S-FNDN	Foundation	.010	Continuous
S-FNDN-PILE	Piles, drilled piers	.010	Continuous
S-FNDN-RBAR	Foundation reinforcing	.010	Continuous
S-GRID	Column grid	15	Phantom
S-GRID-DIMS	Column grid dimensions	2	Continuous
S-GRID-EXTR	Column grid outside building	15	Continuous
S-GRID-IDEN	Column grid tags	.010	Continuous
S-GRID-INTR	Column grid inside building	15	Continuous
S-WALL	Structural bearing or shear walls	.010	Continuous
Telecomm			
T-ANNO-TEXT	General Text	30	Continuous
T-ANNO-SYMB	Symbols	30	Continuous
T-ANNO-LEGN	Legends and schedules	30	Continuous
T-ANNO-TTLB	Border and Title Block	4	Continuous
T-ANNO-NOTE	Job Notes	30	Continuous
T-CABL	Cable plan	.010	Continuous
T-DIAG	Diagram	.010	Continuous
T-EQPM	Equipment plan	.010	Continuous
T-JACK	Data/telephone jacks	.010	Continuous

Attributes (Colors, Linetypes, Pens):

Many of the layers found in this partial AIA Layer List, from the Standard Layer Listing, have been assigned specific attribute values according to the following categories: color, pen weight, and linetype. Attributes that have not been pre-defined may be assigned at the discretion of the user.

Colors:

It is recommended that specific colors for the layers and annotation layers are used to assist space documentation. The color assignment of these layers can be found in the Standard Layer Listing. All other layers may have their colors assigned at the discretion of the client.

<u>COLOR</u>	<u>WIDTH</u>
1	.015
2	.010
3	.010
4	.030
5	.015
6	.010
7	.015
8	.010
9	.015
10	.020
11	.020
12	.015
13	.020
14	.030
15	.0013
Remaining Numbers	.010

NOTES:

- * Drawings should be a .010 color.
- * Text should be a .015 color.
- * Property Lines, Border Lines & Page Division Lines should be a .030 color.
- * Hatching, Hidden Lines, Base Plans, Furniture, ADA Approach Lines & anything that needs to be lighter than .015 is to be assigned to color 15.

As a general rule for all projects, drawing entities should assume the color property of the layer on which they reside. This means that the color of individual entities should be assigned 'by layer' as opposed to 'by entity.' Entities which have been translated from other systems may fail to meet this requirement.

Linetypes:

The default linetype of each layer is typically CONTINUOUS unless otherwise specified.

Parent Group Data

To be used wherever possible. United Nations emblem allowed.

[illegible]

[illegible]